Title of Invention: High Contrast Surface
Marking Using Irradiation of ElectroStatically Applied Marking Materials
Inventor's Name: Harrison, Paul
Serial No: 09/880,391

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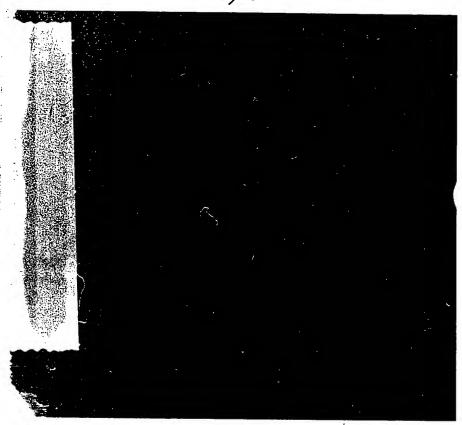


FIG. 1



FIG.2

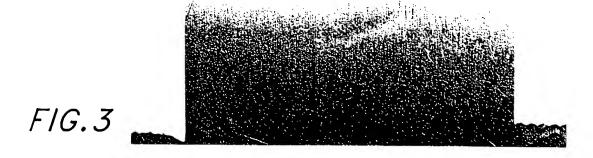
Title of Invention: High Contrast Surface Marking Using Irradiation of Electro-Statically Applied Marking Materials Inventor's Name: Harrison, Paul

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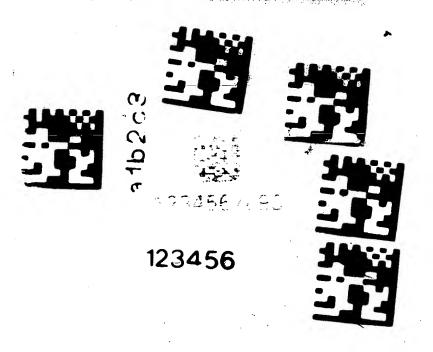


FIG. 4

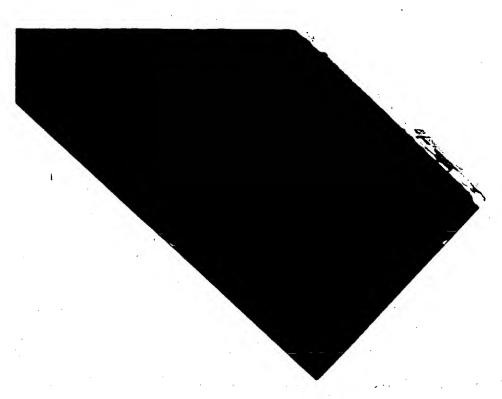
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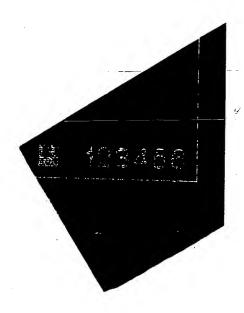


FIG.7

Title of Invention: High Contrast Surface
Marking Using Irradiation of Electro
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Inventor's Name: Harrison, Paul
Serial No: 09/880,391

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Substrate Materials	Marking Materials	Beam Speed	Power (watts)	Freq (Khz/Cw)
Aluminum	Mixed Metal Oxide	200mm/sec	5 watts	ÇW
Aluminum	Glass Frit	250mm/sec	5 watts	CW
Brass	Mixed Metal Oxide	200mm/sec	5 watts	CW
Ceramic	Glass Frit	200mm/sec	5 watts	CW
China	Glass Frit	200mm/sec	5 watts	CW
Copper	Mixed Metal Oxide	100mm/sec	5 watts	20 KHz
Auto Safety Glass	Glass Frit	200mm/sec	5 watts	CW
CRT Display Glass	Glass Frit	200mm/sec	5 watts	CW
Flat Panel Display Glass	Glass Frit	200mm/sec	5 watts	CW
Microscope Slide Glass	Glass Frit	200mm/sec	5 watts	CW
Nickel	Mixed Metal Oxide	200mm/sec	5 watts	CW
Nylon™	Mixed Metal Oxides	250mm/sec	5 watts	CW
Porcelain	Glass Frit	200mm/sec	5 watts	CW
PVC	Mixed Organic Pigments	200mm/sec	5 watts	CW
Stainless Steel	Mixed Metal Oxide	200mm/sec	5 watts	CW
Stainless Steel	Glass Frit	300mm/sec	5 watts	CW
Teflon™	Mixed Metal Oxides	200mm/sec_	5 watts	CW
Tin	Mixed Metal Oxide	200mm/sec	5 watts	CW
Titanium	Mixed Metal Oxide	200mm/sec	5 watts	CW

FIG. 8

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Title of Invention: High Contrast Surface Marking Using Irradiation of Electro Statically Applied Marking Materials Inventor's Name: Harrison, Paul Serial No: 09/880,391

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Substrate <u>Materials</u>	Marking Materials	Beam Speed	Power (watts)	Freq (Khz/Cw)
Aluminum	Mixed Metal Oxide	200mm/sec	5 watts	ÇW
Aluminum	Glass Frit	250mm/sec	5 watts	CW
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Ceramic	Glass Frit	200mm/sec	5 watts	CW
China	Glass Frit	200mm/sec	5 watts	CW
Copper	Mixed Metal Oxide	100mm/sec	5 watts	20 KHz
Auto Safety Glass	Glass Frit	200mm/sec	5 watts	CW
CRT Display Glass	Glass Frit	200mm/sec	5 watts	CW
Flat Panel Display Glass	Glass Frit	200mm/sec	5 watts	CW
Microscope Slide Glass	Glass Frit	200mm/sec	5 watts	CW
Nickel	Mixed Metal Oxide	200mm/sec	5 watts	CW
Nylon™	Mixed Metal Oxides	250mm/sec	5 watts	CW
Porcelain	Glass Frit	200mm/sec	5 watts	CW
PVC	Mixed Organic Pigments	200mm/sec	5 watts	CW
Stainless Steel	Mixed Metal Oxide	200mm/sec	5 watts	CW
Stainless Steel	Glass Frit	300mm/seç	5 watts	CW
Teflon™	Mixed Metal Oxides	200mm/sec	5 watts	CW
Tin	Mixed Metal Oxide	200mm/sec	5 watts	CW
Titanium	Mixed Metal Oxide	200mm/sec	5 watts	CW

FIG. 8

Title of Invention: High Contrast Surface
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Inventor's Name: Harrison, Paul
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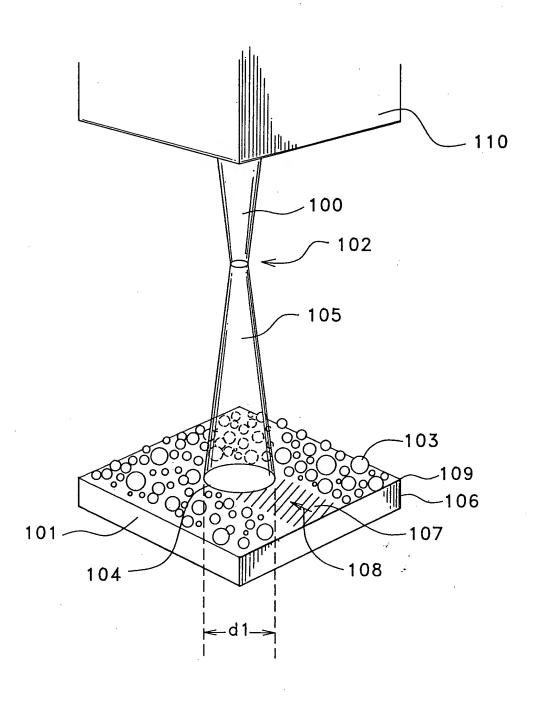


FIG.9

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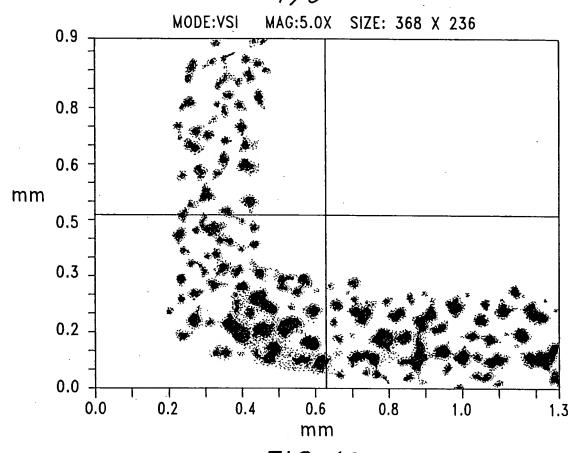


FIG. 10 a

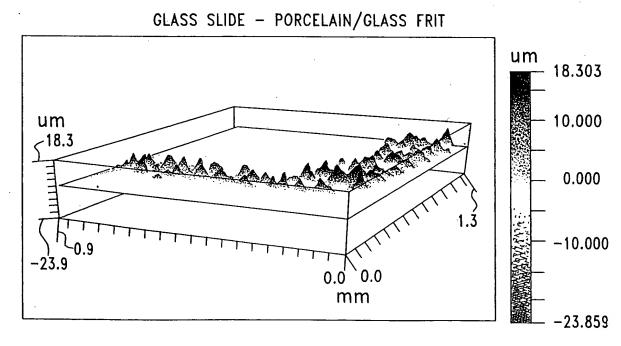
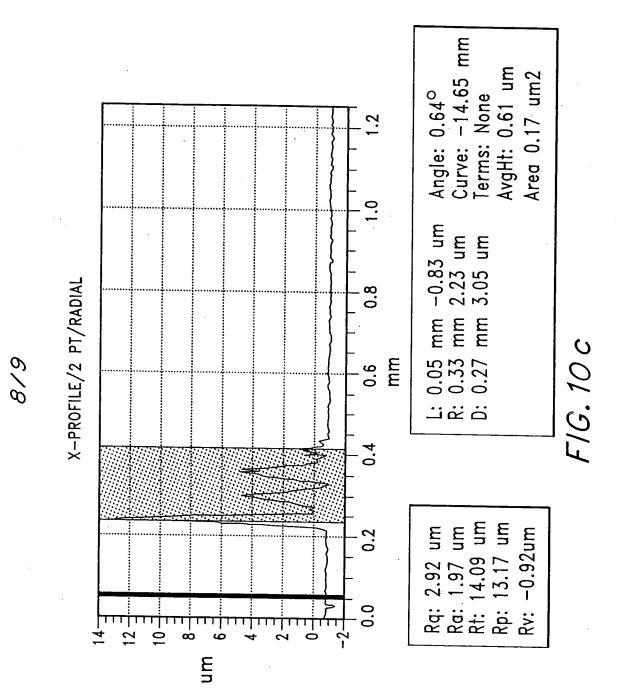
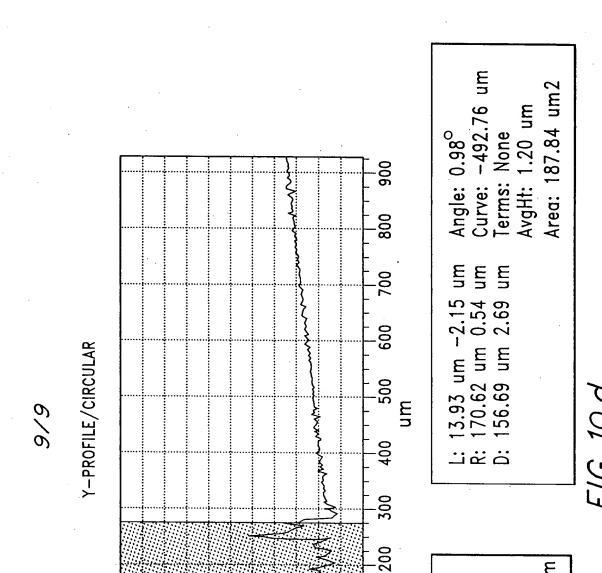


FIG. 10 b



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